

Fig. 1

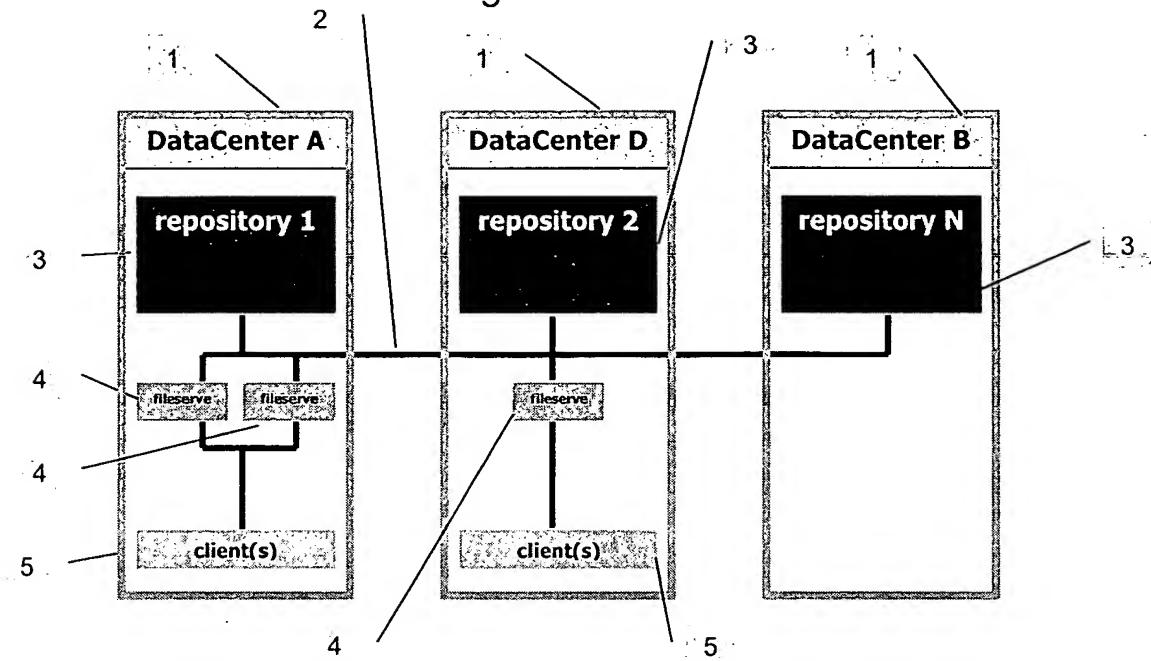


Figure 1: Sample Protected Storage Grid deployment

Fig. 2

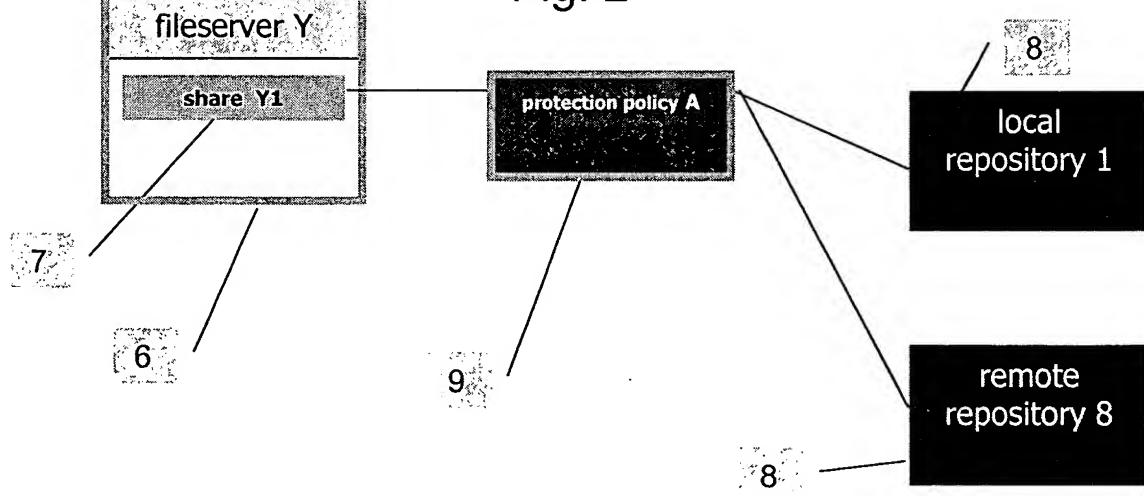


Figure 2: Protection policy

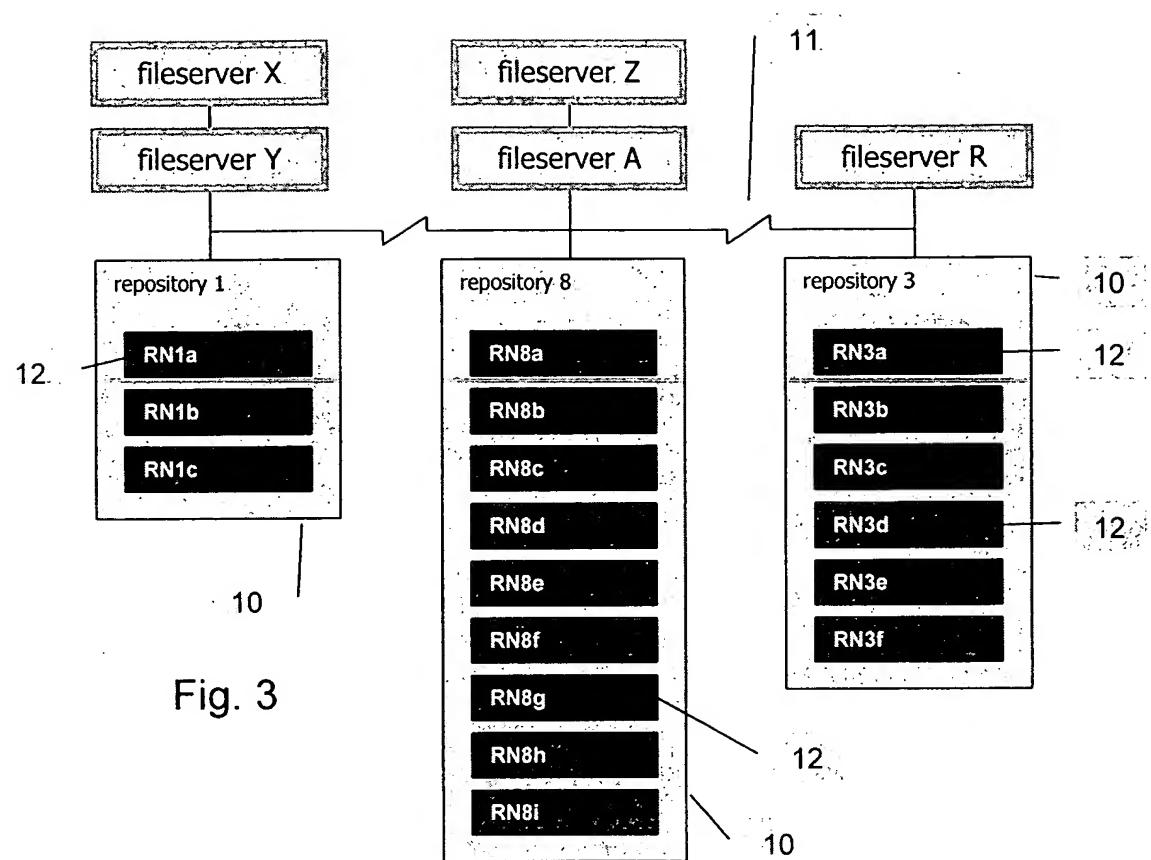


Fig. 3

FIG 3: Repository Nodes within Repositories

Fig. 4

General	Policy Identification
13 CIFS Sharing	Share: GP_MarketingMarcom2
NFS Sharing	Protect this share: <input checked="" type="checkbox"/>
FTP Sharing	Protection: marcom2
Protection Policy	Policy Name: marcom2
14 Description: [2 Local, 0 Remote]	
User Data: D135	
15	Protection Management
	Backup Frequency: 1 Hour
	Replicas: 2 Replicas in New York/Hudson
	1 Replicas in New York/3 Charles
	0 Replicas in Boston
16	Version Management
17 Keep Version History <input checked="" type="checkbox"/>	
18 Version Compression: Delta Compression	
19 Version Compaction:	<input checked="" type="checkbox"/> Keep only one daily version after 7 days
	<input checked="" type="checkbox"/> Keep only one weekly version after 4 weeks
	<input checked="" type="checkbox"/> Keep only one monthly version after 12 months
	<input checked="" type="checkbox"/> Keep only one version after 2 years
20	Advanced Options Hide
21	<input type="checkbox"/> Purge all versions of files that are deleted from this share 7 days after they are deleted.
	Caching Level: High

FIG 4: Protection Policy

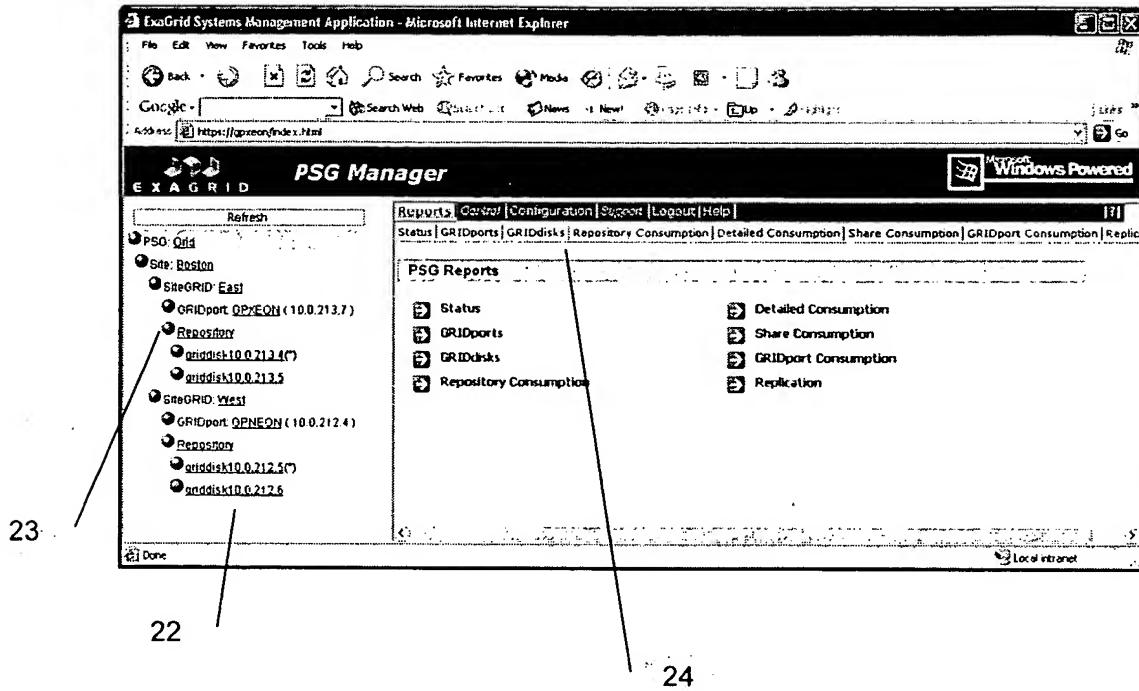


FIG 5: Web-based Management Application

Site	SiteGRID	GRIDport	Share	Current Versions (GB)	Prior Versions (GB)	Total (GB)
Boston	West	GPXEON	nts81	0.000	0.000	0.000
Boston	West	GPXEON	cifs81	8.806	0.000	8.806
Boston	East	GPXEON	ntsx81	0.000	0.000	0.000
Boston	East	GPXEON	cifsx81	30.002	1.536	31.536
				38.807	1.536	40.343

FIG 6: Capacity per share chargeback reporting

PSG Manager

EXAGRID

Refresh

PSG: Grid

- Site: Boston
 - SiteGRID: East
 - GRIDport GPXEON (10.0.213.7)
 - Repository
 - griddisk10.0.213.4(*)
 - griddisk10.0.213.5
 - SiteGRID: West
 - GRIDport GPNEON (10.0.212.4)
 - Repository
 - griddisk10.0.212.5(*)
 - griddisk10.0.212.6

Reports | Control | Configuration | Support | Logout | Help |

Status | GRIDports | GRIDdisks | Repository Consumption | Detailed Consumption | Share Consumption | GRIDport Consumption | Re

Shares Consumption by Repository for PSG : Grid

Consumer	Repository	Capacity Consumed (GB)						
Site	SiteGRID	GRIDport	Share	Site	SiteGRID	Current Versions (GB)	Prior Versions (GB)	Total (GB)
Boston	East	GPXEON	nfsx81	Boston	East	0.000	0.000	0.000
Boston	East	GPXEON	cifsx81	Boston	East	20.058	1.024	21.082
Boston	West	OPNEON	nfs81	Boston	West	0.000	0.000	0.000
Boston	West	OPNEON	cifs81	Boston	West	8.806	0.000	8.806
Boston	East	GPXEON	nfsx81	Boston	West	0.000	0.000	0.000
Boston	East	GPXEON	cifsx81	Boston	West	9.944	0.512	10.456
			Totals			38.807	1.536	40.343

FIG 7: Capacity per share per repository reporting

PSG Manager

EXAGRID

Refresh

PSG: Grid

- Site: Boston
 - SiteGRID: East
 - GRIDport GPXEON (10.0.213.7)
 - Repository
 - griddisk10.0.213.4(*)
 - griddisk10.0.213.5
 - SiteGRID: West
 - GRIDport GPNEON (10.0.212.4)
 - Repository
 - griddisk10.0.212.5(*)
 - griddisk10.0.212.6

Reports | Control | Configuration | Support | Logout | Help |

Status | GRIDports | GRIDdisks | Repository Consumption | Detailed Consumption | Share Consumption | GRIDport Consumption | Re

Repository Consumption Summary for PSG : Grid

Site	SiteGRID	Disk Capacity (GB)	Consumed (GB)	% Consumed	Alarm Threshold
Boston	East	221.77	34.95	15.8%	80%
Boston	West	300.53	36.98	12.3%	80%
			Totals	522.29	71.93
				13.8%	

FIG 8: Capacity per repository reporting

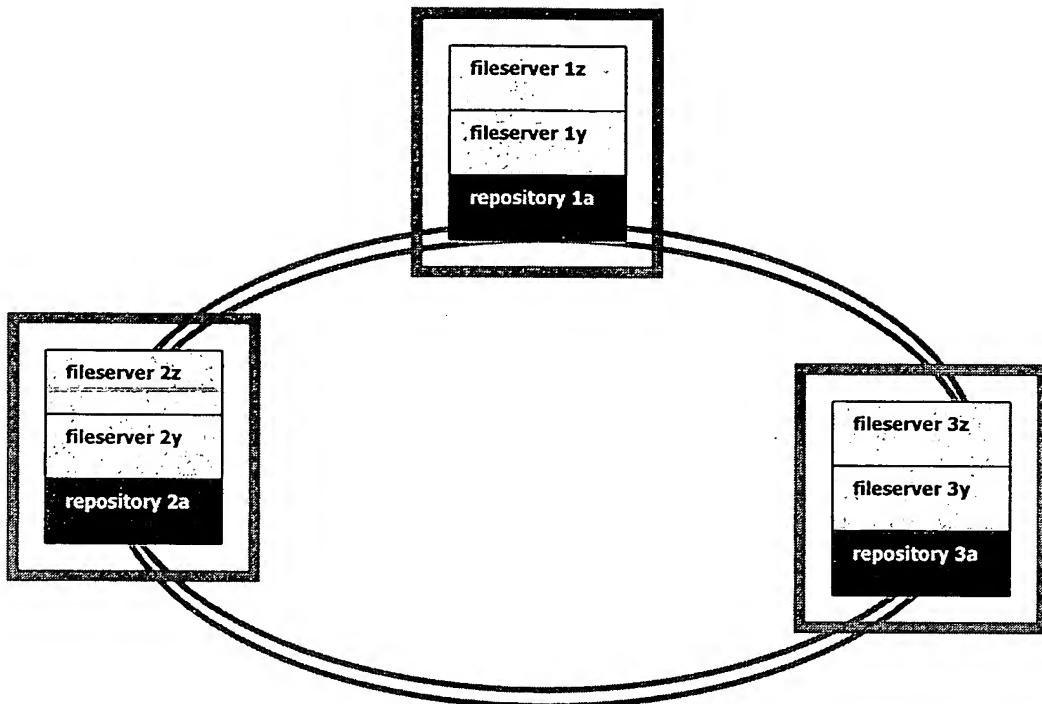


FIG 9: The present invention used as collection of distributed NAS servers, with complete local and remote data protection

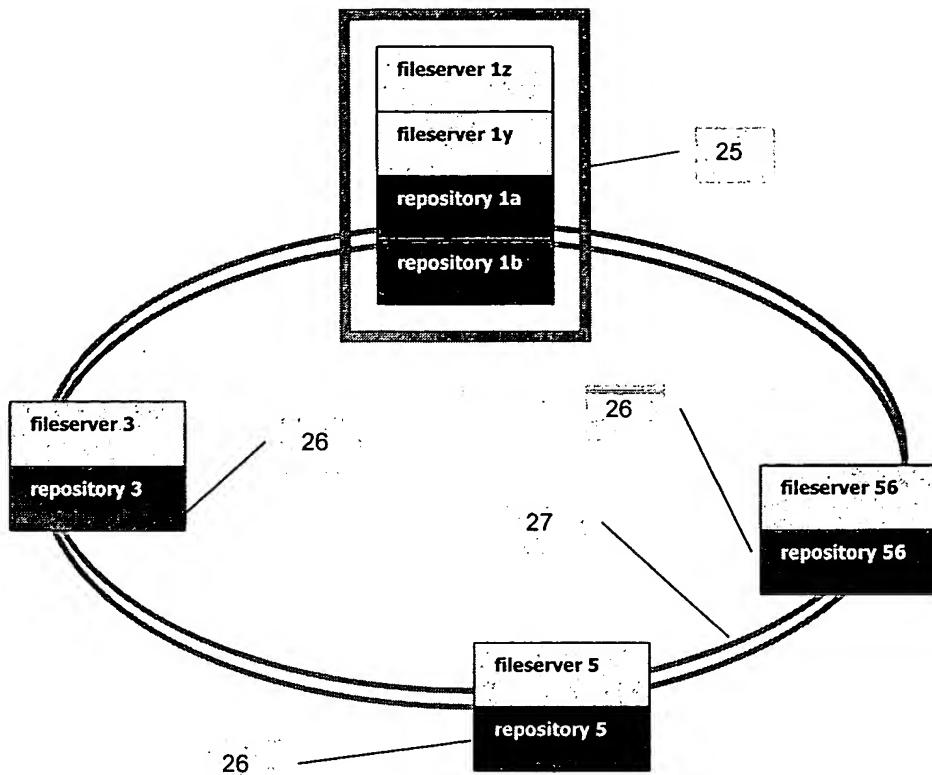


FIG 10: The present invention used in a corporation with a centralized data center and multiple remote offices

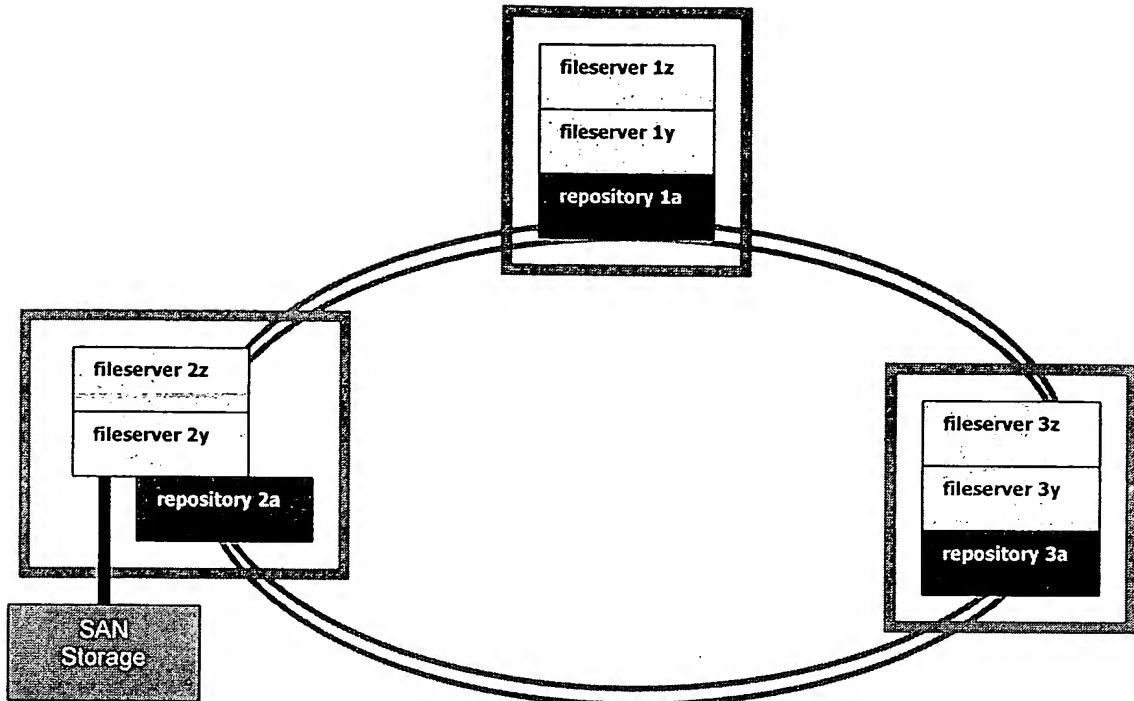


FIG 11: The present invention used to provide tiered storage services for existing SAN storage

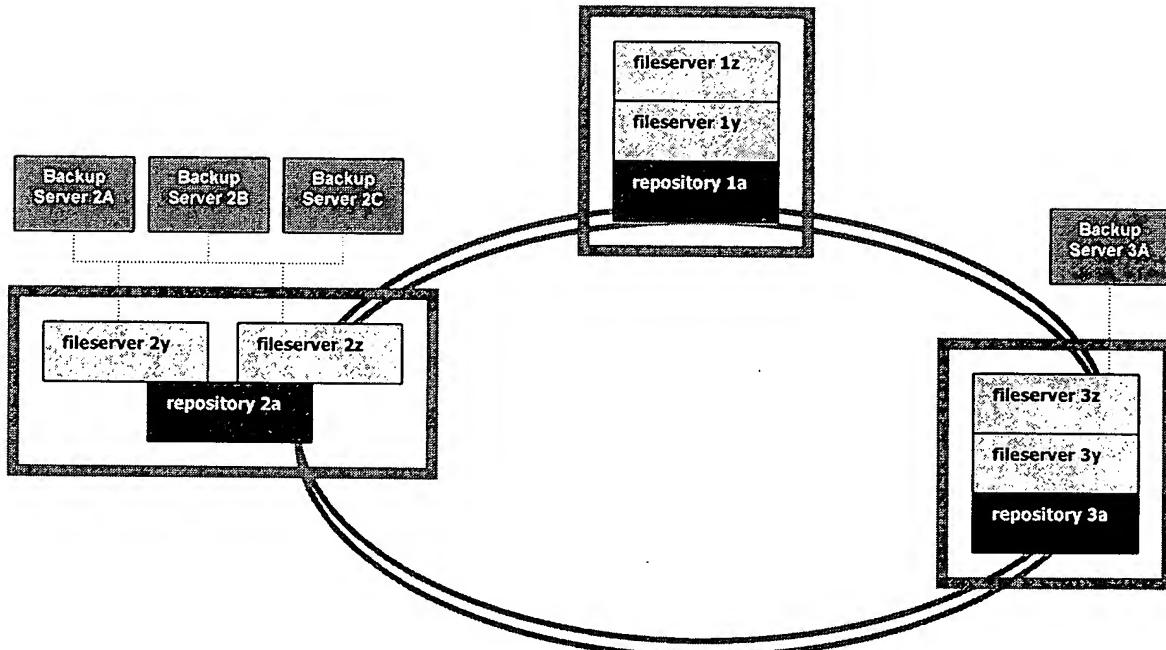


FIG 12: The present invention used as a replacement for tape drives and tape media for traditional backups

Fig. 13

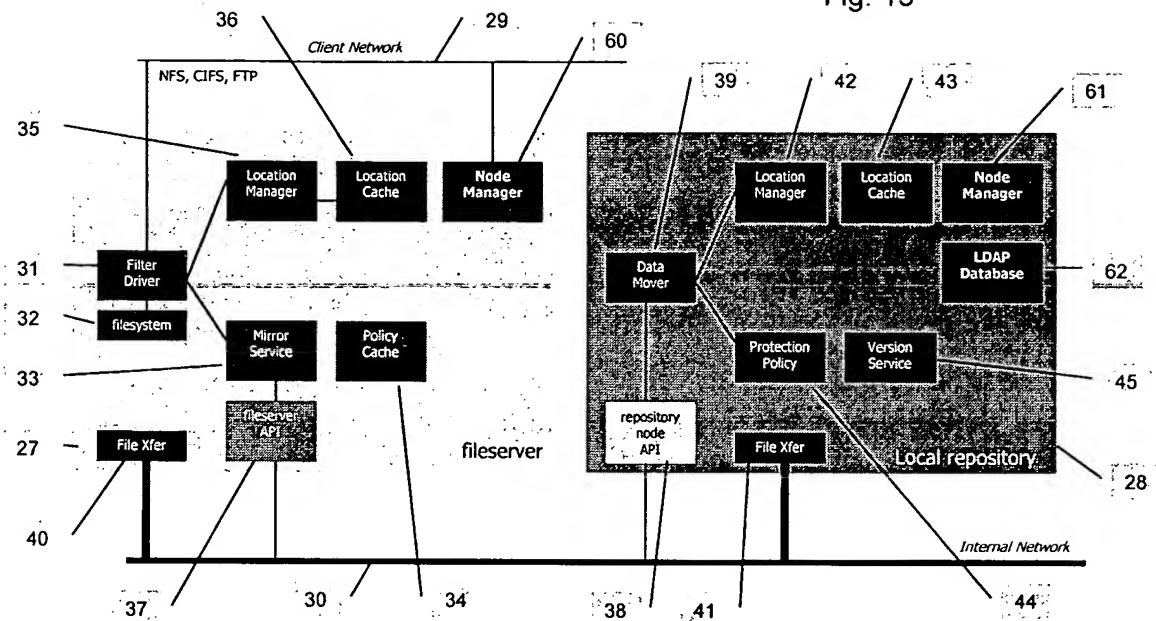


FIG 13: Apparatus and software components that are used to protect new client data to a local repository node

Fig. 14

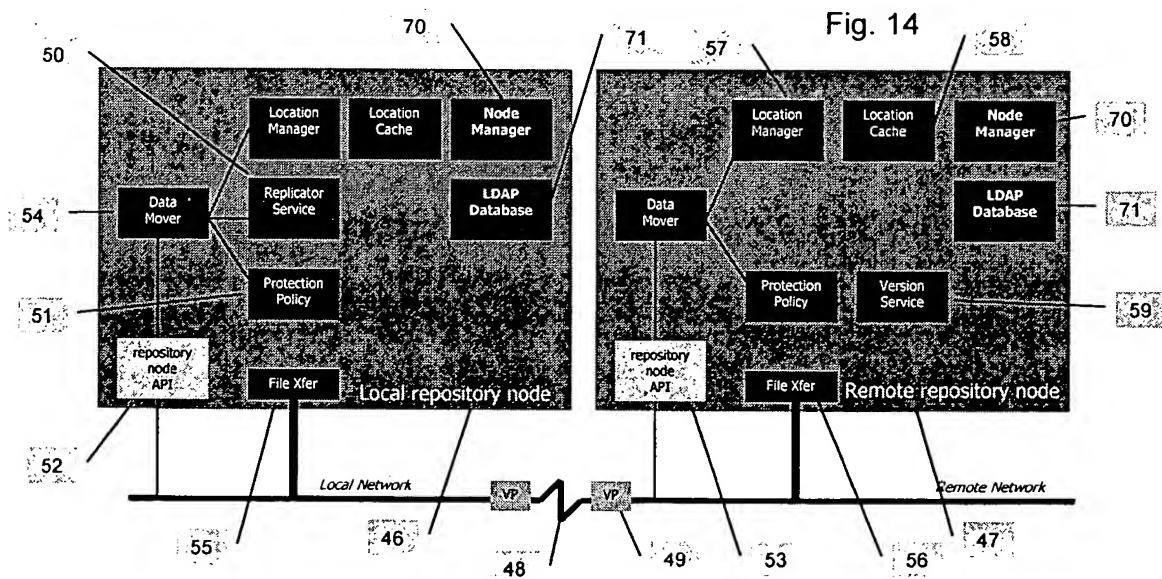


FIG 14: Apparatus that replicates data among repositories

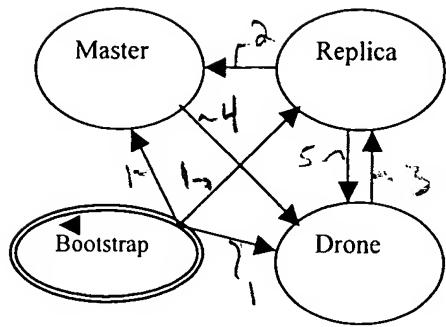


FIG 15: Node Manager Roles and state transitions